150 ± 15 ohms, Method C at 1 MHz

REQUIREMENTS

for 1000 ft.

## SPECIFICATION CONTROL DRAWING



.045

.153

.170

.194

(nominal)

.200

(maximum)

150 OHM, AWG 26, 19 STRANDS OF AWG 38, 1-18-06 Date: TWIN CONDUCTOR CABLE С Revision:

CHARACTERISTIC IMPEDANCE

THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

## **CONSTRUCTION DETAILS**

# **ELECTRICAL CHARACTERISTICS**

DIMENSIONS ARE NOMINAL VALUES IN INCHES UNLESS OTHERWISE

**CONDUCTORS** AWG 26, 19 Strands of .0195 AWG 38, Silver-Coated Ultra High Strength Copper **DIELECTRICS** .068 Rayfoam® H Colors - Lt. Blue / White

**CAPACITANCE - MUTUAL** 8.8 pF/ft. (nominal)

**VELOCITY OF PROPAGATION** 77% (nominal)

SURFACE TRANSFER IMPEDANCE 10 milliohms/meter (maximum) at 30 MHz per MIL-C-85485

#### **FILLERS** Radiaiton-Crosslinked

### **ELECTRICAL**

CONDUCTOR RESISTANCE 56.4 ohms/1000 ft. (nominal) **INSULATION RESISTANCE** 10,000 megohms (minimum)

JACKET FLAWS SPARK TEST 1.0 kV (rms) **IMPULSETEST** 6.0 kV (peak)

VOLTAGE WITHSTAND

ADDITIONAL

(DIELECTRIC) 1500 volts (rms) (minimum)

1st SHIELD

2nd SHIELD

**JACKET** 

Modified FEP

Modified ETFE

AWG 38, Silver-Coated Copper, Optimized

AWG 38, Silver-Coated

Copper, Optimized

**ENVIRONMENTAL** 

**FLAMMABILITY** Method B **HEAT SHOCK** 225°C

-55°C/5.50 inch mandrel LOW TEMPERATURE-**COLD BEND** 

**VOLTAGE WITHSTAND** 

(POST ENVIRONMENTAL) 1000 volts (rms), 1 minute

**PHYSICAL** 

INSULATION (DIELECTRIC)

(Prior to Cabling)

**ELONGATION** 50%(minimum) **TENSILESTRENGTH** 600 lbf/in2 (minimum) **JACKET** 

**ELONGATION TENSILE STRENGTH** JACKET THICKNESS

200% (minimum)

2000 lbf/in<sup>2</sup> (minimum) .012 inch (nominal)

MARKERTAPE: Place marker tape under jacket and mark in 12 inch (nominal) intervals as follows: "5026R042A-9X 06090"

WEIGHT 31.6 lbs/1000 ft. (nominal)

Outer jacket will be translucent white (designated by a "-9X" appended to the part number, e.g., 5026R042A-9X) unless otherwise specified.

Designate outer jacket color with a dash number in accordance with MIL-STD-681. Other codes and suffixes may be added to the part number, as necessary, to capture any additional requirements imposed by the purchase order.

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice.

Tyco Electronics also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.



Wire & Cable